

How big an inverter is needed to convert 12v voltage to 72v



3.2v 280ah



Overview

The calculation for the required inverter size is done using the following formula: $\text{Inverter Size (W)} = (\text{Total Wattage} \times \text{Safety Factor}) \div \text{Inverter Efficiency}$ This ensures that the inverter can handle both the load and the efficiency losses. We need to convert the AC watts to DC amp hours because that's how batteries are rated. Let's use 12 volts since it is the most common. [Related Reading: The Only Battery Size Chart You'll Ever Need](#) What are the two types of power loads?

Resistive load: LED lights, TV. Standard 12v models top out around 3000w (24v/48v ~ 4000w). To proceed: Upgrade to a higher-voltage system (24 V/48 V) for a larger inverter. Use the dropdown to add common devices—or enter your own custom items. Minimum. When deciding on pure, modified, true or quasi-sine wave inverters, it is important to select a dependable system that is appropriate for any power tools, office equipment or other appliances you may run. Our inverter calculator will provide you with a product recommendation based on your AC power. An inverter is a device that converts direct current (DC) electricity (usually from batteries or solar panels) into alternating current (AC) electricity, which is used by most household appliances and electronics.

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[What Size Inverter Do You Need? A Complete Guide for Home, RV](#)

Choosing the right inverter size is crucial--too small, and your appliances won't work; too large, and you'll waste money. This guide will help you determine the ideal inverter size for your ...

[The Only Inverter Size Chart You'll Ever Need](#)

We have created a comprehensive inverter size chart to help you select the correct inverter to power your appliances.



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How big of an inverter do you need? It depends on what you are trying to power and your battery size. Try our easy-to-use Inverter Run-time Calculator!

Inverter Size Calculator

Learn how to calculate the required size of an inverter with our in-depth guide. We provide a handy formula, examples, and answers to common questions to help you make the right choice for your ...



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[Go Power! Inverter Sizing Guide Power Solution. Go Power!](#)

Our inverter calculator will provide you with a product recommendation based on your AC power usage for specific electronics, power tools, and battery chargers.



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For this example, you will need a power inverter capable of handling 4500 watts. The continuous power requirement is actually 2250 but when sizing an inverter, you have to plan for the start up so the ...



[What Size Inverter You Need \(Calculations + Battery\)](#)

The size of the inverter required will be determined by the total wattage of the appliances you need to operate and the time they need to run. You also need to add a bit more on to ...



[Inverter Size Calculator , Find Your Perfect Power Match](#)

The inverter size calculator takes the guesswork out of choosing the right inverter. Simply select your appliances below, and you'll instantly see the inverter size you need.



[The Only Inverter Size Chart You'll Ever Need](#)

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[What Size Inverter Do I Need?](#)

Finding the proper inverter size for your needs is as simple as adding together the necessary wattages of the items that you're looking to power.



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